AUTHOR INDEX TO VOLUME 69

Aas-Hansen, O., 37
Abou-Donia, M. B., 919
Abushaban, A., 381
Adolfsson-Erici, M., 1861
Afriyie-Gyawu, E., 1203
Aigueperse, J., 1613
Akiba, S., 723
Al-Humadi, N. H., 1261
Alavanja, M., 533, 599
Aluru, N., 37
Andersen, O. K., 77
Archer, V. E., 633
Arieli, Y., 1497
Arkusz, J., 1843
Arukwe, A., 1
Ashmore, J. P., 1013
Audet, D. J., 1039
Aylward, L. L., 907

Baden, D. G., 1325
Baier-Anderson, C., 319
Baker, C., 953
Bakke, T., 185
Balasubramanian, R., 1893, 1895, 1909
Balk, L., 125
Barlow, P. J., 1979
Baroody, G. M., 1117, 1587
Basu, N., 1133
Baudelin, L. C., 1613
Beighley, C. M., 465
Benson, J. M., 1325
Benton, B. J., 2167
Berge, J. A., 185
Berntssen, M., 125
Beyer, J., 125
Bingham, C., 159
Bird, D. M., 1541, 1603
Birmingham, B., 845
Bishop Stone, M., 633
Bjerkeng, B., 185
Bjornstad, A., 77
Blanchardon, E., 1629
Blankenship, A. L., 395
Bloodworth, B. C., 1893
Blount, B. C., 1727
Bodensteiner, K. J., 491
Bonnell, J. C., 2167
Bortolotti, G. R., 1603
Boustany, K., 1117
Brand, K., 735
Briede, J. J., 245
Brozyna, A., 1155
Brunekreef, B., 1819, 2007
Burger, J., 1217
Burton, G. A., 1441
Bustnes, J. O., 97

Cabal, J., 1431, 1875
Cabre, M., 1371
Calafat, A. M., 215
Canuto, R. A., 353
Carr, Z., 759
Castranova, V., 1097, 1511
Catalan, V., 533, 599
Chan, H. M., 1133
Chan, V. S. W., 1971
Chang, C.-C.,
Chang, H. C., 1399
Chatuev, B. M., 1083
Chazel, V., 1629
Chen, C.-H., 1055
Chen, D. H., 811
Chen, H.-L., 367
Chen, J. J., 735, 1527
Chen, P.-H., 1055
Chen, R., 1399
Chi Lui Ho, P., 1959
Chi-Cheng, T., 1055
Cho, T. M., 1413
Chong, Y. S., 1927, 1987
Choong, A. M. F., 1959
Chopra, A. K., 1083, 1345
Chopra, S., 1345
Chopra, V., 1345
Chwirot, B. W., 1155
Claraz, M., 1629
Clewell, H. J., 1727
Cohen, M. D., 935
Colavecchia, M. V., 967
Comer, J. E., 1083
Conolly, R. B., 1727
Cooper, G. S., 2063
Corey, L. M., 953
Cundiff, J. A., 445
Curtis, S. B., 1013

Daher, C. F., 1117, 1587
Dahl, E., 53
Dallas, C. E., 201
Dash, B., 1203
David, R. M., 1651
De Guise, S., 283
de Kok, T. M. C. M., 245
Dietert, R. R., 811
Dodd, D. E., 771
Donnelly, K. C., 1413
Drouillard, K., 1541
Dublineau, I., 1613
Dwivedi, J., 1311
Dziubaltowska, E., 1843

Eaton, M. M., 1497
Ekstrand, J., 1861
El-Masry, E. M., 919

Fadl, A. A., 1345
Feng, R., 1511
Fernie, K. J., 1541, 1603
Field, R. W., 525, 533, 599, 655
Fisher, S. A., 1603
Flemming, J., 1239
Folch, J., 1371
Fonnum, F., 21
Forrester, M. B., 497, 899, 1145, 1253, 1719, 1757, 1883
Fortuno, A., 1371
Fraser, P. A., 2063
Frazer, D. G., 465
Fudge, N., 1819
Fukutsu, K., 723
Furukawa, M., 723

Gabrielsen, G. W., 159
Galindo, C. L., 1345
Gans, G., 1651
Geier, D. A., 1481
Geier, M. R., 1481
Genovese, R. F., 2167
Giesy, J. P., 395
Gilmour, M. I., 827
Gilmour, P. S., 2011
Giralt, M., 1371
Gochfeld, M., 1217
Goksoyr, A., 175
Gonzalez-Lima, F., 1681
Goodyear, C. D., 1441
Gould, T., 935
Gourmelon, P., 1613
Gray, L. E., 215
Gray, M. N., 907
Greenberg, M., 1217
Gromadzinska, J., 1843
Gu, D., 1399
Guo, Y.-L., 367
Gursahani, H., 1497

Haave, M., 53
Haddad, N., 1117, 1587
Haddad, S., 2095
Hassoun, E. A., 381

Hastings, K. L., 893
Haunert, D., 1167
Hazelton, W. D., 1013
He, W., 1511
Heepchantree, W., 1071
Heid, I. M., 681, 701
Heinz, G. H., 1039
Henn, B. C., 1805
Herbert, A. R., 215
Hernandez-Avila, M., 1781
Hernandez-Cadena, L., 1781
Hiyoshi, K., 1571
Ho, P.-S., 1055
Hodson, P. V., 967
Hoffman, D. J., 1039
Hogan, N. S., 1555
Hogervorst, J. G. F., 245
Holden, B., 381
Holmes, C. F. B., 303
Hou, C., 723
Hrabinova, M., 1431
Hsieh, Hui-ju, 2033
Hu, H., 1781
Hu, S., 1261
Huebner, H. J., 1203
Huffman, L. J., 465
Hultman, P., 505
Hwang, M. S., 2157
Hylland, K., 109, 125, 185

Ichinose, T., 1571
Iouri, K., 1895
Ishikawa, T., 723

Jagoe, C. H., 201
Jakubowski, E. M., 2167
Jang, S., 2071
Jaques, P., 935
Jasinghe, V. J., 1979
Jaskot, R. H., 2011
Jenssen, B. M., 2051
Jing, T., 1927, 1987
Johansen, G. M., 139
Jolly, Pauline E., 1203
Jones, Dirk, 1681
Jones, M. B., 77
Jones, P. D., 395
Jorgensen, E. H., 37
Jun, D., 1431

Kang, J. L., 1097
Kangwanpong, D., 1071
Kanj, R. S., 1097
Kano, H., 1827
Karthikeyan, S., 1895, 1909
Kassa, J., 1431, 1875
Katoh, M., 1651
Kawasuso, T., 1651
Kawazato, H., 1571
Kay, D. P., 395
Kee, L. H., 1893
Keenan, R. E., 907
Kelsey-Wall, A., 201
Kerger, B. D., 437
Kie, J.-H., 2071
Killie, J.-E. A., 37
Kim, D.-H., 2071
Kim, J., 1181
Kim, S. H., 2157
Kirdin, I., 665
Kleinjans, J. C. S., 245
Klotz, J. B., 533, 599
Klungsoyr, J., 125
Ko, A. M.-S., 1055
Ko, Y.-C., 1055
Kodavanti, U. P., 2011
Kodell, R. L., 1527
Koenig, J., 935
Koh, H. L., 1951, 1959
Koulajian, K. B., 1587
Kreienbrock, L., 701
Krewski, D., 533, 599, 735, 759, 1013
Krishna Rao, K. M., 481
Krokje, A., 159
Kuca, K., 1431, 1875
Kuchenhoff, H., 701
Kuo, C.-Y., 1337
Kurata, Y., 1651
Kuwahara, M., 1699
Kwan, M., 1133

Laird, S. J., 1541
LaKind, J. S., 319
Lai, J.-C., 1337
Lamadrid-Figueroa, H., 1781
Landman, M. J., 1763
Lang, T., 125
Larsen, B. K., 77
Larsen, H. J., 53, 139
Larson, T., 935
Lash, L. H., 1285
Latendresse, J. R., 1527
Lawrence, B. P., 445
Lean, D. R. S., 1555
Lee, B. M., 2157
Lee, C.-C., 367
Lee, H., 1337, 2157
Lee, I.-M., 229
Lee, J.S., 2157
Lee, Y.-M., 2071
Leiva-Presa, A., 2051
Leow, J. L., 1959
Letcher, R. J., 1541
Letourneau, E. G., 533, 599
Leung, H.-W., 437
Levin, M., 283
Lewinska, D., 1843
Lewis, J. M., 1711
Li, A., 1399
Li, C.-M., 1055
Li, Q. Q., 1927, 1987
Liao, K. H., 1727
Lie, E., 53
Lin, J.-Y., 1337
Lin, Y.-C., 1055
Linares, V., 1371
Lippmann, M., 935
Liu, J., 1399
Liu, Q., 1399
Loganath, A., 1927, 1987
Low, M.-Y., 1951
Lubin, J. H., 533, 599
Luchtel, D. L., 953
Luebke, R. W., 811
Luster, M. I., 811
Luz, G. A., 777
Lyche, J. L., 53, 139
Lynch, C. F., 533, 599
Lyon, J. L., 533, 599, 633

Ma, J. K. H., 1261
MacCarroll, M. A., 395
Maciejczyk, P., 935
Maggiora, M., 353
Mallol, J., 1371
Marcus, S. M., 1711
Mariussen, E., 21
Martinasso, G., 353
Mason, A. M., 1727
Matsushima, T., 1827
Mattie, D. R., 1441
Maule, A., 37
Mayer, H. J., 1217
McGee, J. K., 2011
McHenry, D. J., 1083
McKinney, W. G., 465
McLaughlin, D., 845
McMaster, S., 1805
Meighan, T., 481
Mercado, A., 1781
Meredith, F. I., 1387
Merz, R. D., 1253
Meyerhof, D., 735
Miller, J. D., 1239
Monleau, M., 1629
Moolgavkar, S. H., 1013
Moon, J.-Y., 2157
Mori, C., 283
Mori, I., 1571
Morsey, B., 283

Mortensen, A. S., 1
Mulero, M., 1371
Muzio, G., 353

Na Yum, Y., 2157
Naes, K., 185
Nagano, K., 1827
Naiman, D. Q., 319
Nam, K. T., 2157
Nambiar, P. R., 283
Needham, L. L., 215
Neigh, A. M., 395
Newsted, J. L., 395
Nishikawa, M., 1571
Noffsinger, D. M., 1083
Nogues, M. R., 1371
Norred, W. P., 1387
Nyska, A., 2011

Obbard, J. P., 1893, 1927, 1987
Ochi, H., 1511
Odham, G., 1861
Oh, S., 2071
Okayama, Y., 1699
Oskam, I. C., 53

Paar, M., 1875
Padilla, S., 1805
Palus, J., 1843
Pan, L., 1939
Paquet, F., 1613
Paquet, F., 1629
Paratasilpin, T., 1071
Park, M. S., 2157
Parker, J. C., 1285
Parks, C. G., 2063
Parrott, J. L., 967
Paternain, J. L., 1371
Paustenbach, D. J., 437
Perera, C. O., 1979
Peterson, J. W., 1083
Phillips, T. D., 1203
Pinkerton, K., 1497
Pollard, K. M., 505
Porter, D. W., 465
Porter, W., 1203
Powers, C. W., 1217
Preau, J. L., 215
Prepas, E. E., 303
Prophete, C., 935
Putt, D. A., 1285
Pyo, S., 2137

Rand, T. G., 1239
Rattner, B. A., 331
Reidy, J. A., 215
Reistad, T., 21
Repacholi, M., 759
Rhee, D.-K., 2137
Richburg, J. H., 793
Riley, R. T., 1387
Ritchie, I. J., 1541
Roberts, S., 417
Robinson, P. J., 1441
Robson, M. G., 1711
Romeu, M., 1371
Ropstad, E., 53, 139
Rosario, A. S., 681, 701
Rothney-Kozlak, L., 633
Ruus, A., 185
Rydzynski, K., 1843

Sadakane, K., 1571
Salnikow, K., 935
Samandar, E., 215
Samet, J. M., 527
Sandborgh-Englund, G., 1861
Sanderson, E. G., 1819
Sandler, D. P., 533, 599, 633
Saunders, D. S., 1387
Schaefer, S., 1497
Schladweiler, M. C., 2011
Schmid, J., 2011
Schoenberg, J. B., 533, 599
Schur, P. S., 2063
Seaman, J. C., 201
See, S., 1909
Selgrade, M. J. K., 827
Sha, J., 1345
Sharma, R. P., 1181
Shepherd, M., 633
Shibamoto, T., 1571
Shieh, T.-Y., 1055
Shiel, M., 1711
Shippee, S. J., 2167
Shore, D. L., 633
Silva, M. J., 215
Sioutas, C., 935
Skaare, J. U., 53, 139
Skadsheim, A., 77
Slaiby, R., 1117
Smith, D., 1781
Smits, J. E., 1603
Solano-Gonzalez, M., 1781
Son, E.-W., 2137
Souidi, M. C., 1613
Stanczyk, M., 1843
Steck, D. J., 533, 599, 655
Stepnik, M., 1843
Sterner, T. R., 1441
Stolwijk, J. A., 533, 599, 633
Su, H.-J. I., 367
Sun, Q., 723
Sureda, F. X., 1371
Suzuki, A. K., 1699
Sze-Yin Oh, S., 1951

Takano, H., 1571
Tan, S., 319
Tan, Y.-M., 1727
Tardif, G.-C., 2095
Tarif, R., 2095
Taylor, A., 505
Tellez-Rojo, M. M., 1781
Teo, Serena L.-M., 1959
teRiele, J., 491
Thomas, R., 2011
Tibbetts, B. M., 1325
Tiffany-Castiglioni, E., 1413
Tokonami, S., 723
Tolfsen, C. C., 1
Tomonari, Y., 1651
Totlandsdal, A. I., 1819
Tracy, B. L., 735
Tremblay, L. A., 1763
Trombetta, A., 353
Trombetta, L. D., 1311
Trudeau, V. L., 1555
Trzcinka-Ochocka, M., 1843
Tsai, C., 1527
Tsai, S.-S., 229
Tsubone, H., 1699
Tuven, R. H., 159
Tverdal, A., 139

van Bree, L., 1819
van den Heuvel, M. R., 1763
van Schayck, C. P., 245
Vassilev, P. Z., 1711
Vijayan, M. M., 37
Vodhanel, J., 381
Volz, C. D., 1217
Vorderstrasse, B. A., 445
Voss, K. A., 1387

Wang, J.-S., 1203
Wang, J.-G., 1939
Wang, M., 1939
Wang, Y.-J., 269
Wasowicz, W., 1843
Weinberg, C., 533, 599, 633
Weisbaum, D. M., 1083
Wellmann, J., 681
Wesseling, G., 245
Wichmann, H.-E., 681, 701
Wiger, R., 53
Wilcox, H. B., 533, 599
Wild, J. R., 1413

Wilson, P. C., 1167
Wilson, S. B., 1167
Womiloju, T. O., 1239
Wong, R.-H., 1337
Wu, B., 1939

Yamada, Y., 723
Yamamoto, S., 1827
Yanagisawa, R., 1571
Yang, C.-Y., 1673, 1797, 2033
Yang, J. M., 505
Yang, K. H., 2157
Yang, T. S., 1909
Yang, Y.-H., 1055
Yang, Y., 811
Yao, Y.-J., 367
Yarmoshenko, I., 665
Yasuda, A., 1571
Yin, Xuejun J., 1261
Yonehara, H., 723
Yoo, H.-S., 2071
Yoon, E., 2157
Young, J. F., 1527
Yum, Y.N., 2157
Zhang, S., 723
Zhang, X., 1681
Zhao, H., 1261
Zhou, J., 1399
Zhu, T., 1399
Zhukovsky, M., 665
Zhuo, W., 723
Zielinski, J. M., 525, 533, 599, 735, 759, 1013
Zou, P., 1951
Zurawell, R. W., 303
Zwiernik, M. J., 395

JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH
PART A: CURRENT ISSUES
Volume 69 Table of Contents

Volume 69, Issues 1–2

Gene Expression Patterns in Estrogen (Nonylphenol) and Aryl Hydrocarbon Receptor Agonists (PCB-77) Interaction using Rainbow Trout (*Oncorhynchus Mykiss*) Primary Hepatocyte Culture 1
Anne Skjetne Mortensen, Christina C. Tolfsen, and Augustine Arukwe

Molecular Mechanisms Involved in the Toxic Effects of Polychlorinated Biphenyls (PCBs) and Brominated Flame Retardants (BFRs) 21
F Fonnum, E. Mariussen, and T. Reistad

Toxicokinetics and Effects of PCBs in Arctic Fish: A Review of Studies on Arctic Charr 37
Even H. Jørgensen, Mathilakath M. Vijayan, Jan-Eirik A. Killie, Neelakanteswar Aluru, Øyvind Aas-Hansen, and Alec Maule

Endocrine Disruption Induced by Organochlorines (OCs): Field Studies and Experimental Models 53
Erik Ropstad, Irma C. Oskam, Jan L. Lyche, Hans J. Larsen, Elisabeth Lie, Marte Haave, Ellen Dahl, Richard Wiger, and Janneche Utne Skaare

The Potential of Ecotoxicoproteomics in Environmental Monitoring: Biomarker Profiling in Mussel Plasma using Proteinchip Array Technology 77
A. Bjørnstad, B. K. Larsen, A. Skadsheim, M. B. Jones, and O. K. Andersen

Pinpointing Potential Causative Agents in Mixtures of Persistent Organic Pollutants in Observational Field Studies: A Review of Glaucous Gull Studies 97
Jan O. Bustnes

Polycyclic Aromatic Hydrocarbon (PAH) Ecotoxicology in Marine Ecosystems 109
Ketil Hylland

May Organic Pollutants Affect Fish Populations in the North Sea? 125
Ketil Hylland, Jonny Beyer, Marc Berntssen, Jarle Klungsøyr, Thomas Lang, and Lennart Balk

Perinatal exposure to low Doses of PCB 153 and PCB 126 Affects Maternal and Neonatal Immunity in Goat Kids 139
Jan L. Lyche, Hans J. S. Larsen, Janneche Utne Skaare, Aage Tverdal, Grethe M. Johansen, and Erik Ropstad

Chromosome Aberrations and DNA Strand Breaks in Glaucous Gull (*Larus Hyperboreus*) Chicks fed Environmentally Contaminated Gull Eggs 159
Åse Krøkje, Chris Bingham, Ruth Husmo Tuven, and Geir Wing Gabrielsen

Endocrine Disruptors in the Marine Environment: Mechanisms of Toxicity and their Influence on Reproductive Processes in Fish 175
Anders Goksøyr

Polychlorinated Dibenzo-*p*-Dioxins (PCDDs) and Dibenzofurans (PCDFs) in the Grenland Fjords (Norway)—Disposition, Levels, and Effects 185
Anders Ruus, John Arthur Berge, Ketil Hylland, Birger Bjerkeng, Torgeir Bakke, and Kristoffer Næs

Volume 69, Issue 3

Biological Half-life and Oxidative Stress Effects in Mice with Low-level, Oral Exposure to Tritium 201
Angel Kelsey-Wall, John C. Seaman, Charles H. Jagoe, and Cham E. Dallas

Mono-(3-Carboxypropyl) Phthalate, A Metabolite of Di-*n*-octyl Phthalate 215
Antonia M. Calafat, Manori J. Silva, John A. Reidy, L. Earl Gray, Ella Samandar, James L. Preau, Jr., Arnetra R. Herbert, and Larry L. Needham

Correlation of Asian Dust Storm Events with Daily Clinic Visits for Allergic Rhinitis in Taipei, Taiwan 229
Chih-Ching Chang, I-Ming Lee, Shang-Shyue Tsai, and Chun-Yuh Yang

Alprazolam Abuse in Texas, 1998–2004 237
Mathias B. Forrester

Relationship between Radical Generation by Urban Ambient Particulate Matter and Pulmonary Function of School Children 245
Janneke G. F. Hogervorst, Theo M. C. M. de Kok, Jacob J. Briedé, Geertjan Wesseling, Jos C. S. Kleinjans, and Constant P. van Schayck

Volume 69, Issue 4

Patterns of Exposures at School Among Children Age 6–19 Years Reported to Texas Poison Centers, 1998–2002 263
Mathias B. Forrester

Interactive Effects Between CYP1A1 Genotypes and Environmental Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans Exposures on Liver Function Profile 269
Hsiu-Ling Chen, Huey-Jen Su, Ying-Jan Wang, Yue-Liang Guo, Pao-Chi Liao, and Ching-Chang Lee

Immunomodulatory Effects of in Vitro Exposure to Organochlorines on T-Cell Proliferation in Marine Mammals and Mice 283
Chiharu Mori, Brenda Morsey, Milton Levin, Prashant R. Nambiar, and Sylvain De Guise

Elimination of the Cyanobacterial Hepatotoxin Microcystin from the Freshwater Pulmonate Snail *Lymnaea stagnalis jugularis* (SAY) 303
Ronald W. Zurawell, Charles F. B. Holmes, and Ellie E. Prepas

Estimates of Exposures to Perchlorate from Consumption of Human Milk, Dairy Milk, and Water, and Comparison to Current Reference Dose 319
Cal Baier-Anderson, Benjamin C. Blount, Judy S. LaKind, Daniel Q. Naiman, Sharon B. Wilbur, and Shirlee Tan

Toxicity and Hazard of Vanadium to Mallard Ducks (*Anas platyrhynchos*) and Canada Geese (*Branta canadensis*) 331
Barnett A. Rattner, Moira A. McKernan, Karen M. Eisenreich, William A. Link, Glenn Olsen, David J. Hoffman, Kathy A. Knowles, and Peter C. McGowan

Volume 69, Issue 5

Effects of Di(2-Ethylhexyl) Phthalate, A Widely Used Peroxisome Proliferator and Plasticizer, on Cell Growth in the Human Keratinocyte Cell Line NCTC 2544 353
Germana Martinasso, Marina Maggiora, Antonella Trombetta, Rosa Angela Canuto, and Giuliana Muzio

Fatty Liver and Hepatic Function for Residents with Markedly High Serum PCDD/Fs Levels in Taiwan 367
Ching-Chang Lee, Yei-Jen Yao, Hsiu-Ling Chen, Yue-Liang Guo, and Huey-Jen Su

The Effects of Ellagic Acid and Vitamin E Succinate on Antioxidant Enzymes Activities and Glutathione Levels in Different Brain Regions of Rats After Subchronic Exposure to TCDD 381
Ezdihar A. Hassoun, Jennifer Vodhanel, Bethany Holden, and Ahmed Abushaban

Productivity of Tree Swallows (*Tachycineta Bicolor*) Exposed to PCBs at the Kalamazoo River Superfund Site 395
Arianne M. Neigh, Matthew J. Zwiernik, Monica A. MacCarroll, John L. Newsted, Alan L. Blankenship, Paul D. Jones, Denise P. Kay, and John P. Giesy

Volume 69, Issue 6

A New Model for Investigating the Mortality Effects of Multiple Air Pollutants in Air Pollution Mortality Time-Series Studies 417
Steven Roberts

Elimination Half-Lives of Selected Polychlorinated Dibenzodioxins and Dibenzofurans in Breast-Fed Human Infants 437
Hon-Wing Leung, Brent D. Kerger, and Dennis J. Paustenbach

A Dose-Response Study of the Effects of Prenatal and Lactational Exposure to TCDD on the Immune Response to Influenza A Virus 445
Beth A. Vorderstrasse, Jennifer A. Cundiff, and B. Paige Lawrence

Increased Susceptibility of Hyperthyroid Rats to Ozone: Early Events and Mechanisms 465
L. J. Huffman, C. M. Beighley, D. G. Frazer, W. G. McKinney, and D. W. Porter

Exposure In Vivo to Silica or Lipopolysaccharide Produces Transient or Sustained Upregulation, Respectively, of PYPAF7 and MEFV Genes in Bronchoalveolar Lavage Cells in Rats 481
K. Murali Krishna Rao and Terence Meighan

Dibromoacetic Acid, A Commonly Occurring Water Disinfection By-Product, Does Not Affect Follicular Populations in Neonatal Rats 491
Jaclyn A. teRiele and Karin J. Bodensteiner

Pattern of Sildenafil Calls to Texas Poison Control Centers, 1998–2004 497
Mathias B. Forrester and Leopoldo Artalejo III

The Effect of Xenobiotic Exposure on Spontaneous Autoimmunity in (SWR × SJL)F1 Hybrid Mice 505
P. Hultman, A. Taylor, J. M. Yang, and K. M. Pollard

Volume 69, Issues 7–8

Preface 525
Guest Editors: Jan M. Zielinski and R. William Field

Residential Radon and Lung Cancer: End of the Story? 527
Jonathan M. Samet

North American Residential Radon Studies

A Combined Analysis of North American Case-Control Studies of Residential Radon and Lung Cancer 533
Daniel Krewski, Jay H. Lubin, Jan M. Zielinski, Michael Alavanja, Vanessa S. Catalan, R. William Field, Judith B. Klotz, Ernest G. Létourneau, Charles F. Lynch, Joseph L. Lyon, Dale P. Sandler, Janet B. Schoenberg, Daniel J. Steck, Jan A. Stolwijk, Clarice Weinberg, and Homer B. Wilcox

An Overview of the North American Residential Radon and Lung Cancer Case-Control Studies 599
R. William Field, Daniel Krewski, Jay H. Lubin, Jan M. Zielinski, Michael Alavanja, Vanessa S. Catalan, Judith B. Klotz, Ernest G. Létourneau, Charles F. Lynch, Joseph L. Lyon, Dale P. Sandler, Janet B. Schoenberg, Daniel J. Steck, Jan A. Stolwijk, Clarice Weinberg, and Homer B. Wilcox

Indoor Radon and Lung Cancer Risk in Connecticut and Utah 633
Dale P. Sandler, Clarice R. Weinberg, David L. Shore, Victor E. Archer, Mary Bishop Stone, Joseph L. Lyon, Lynne Rothney-Kozlak, Marsha Shepherd, and Jan A. J. Stolwijk

Radon Risk Assessment

Dosimetric Challenges for Residential Radon Epidemiology 655
Daniel J. Steck and R. William Field

Uncertainty Analysis of Relative Biological Effectiveness of Alpha-Radiation for Human Lung Exposure 665
Ilia Yarmoshenko, Ivan Kirdin, and Michael Zhukovsky

Radon Epidemiology: Continuous and Categorical Trend Estimators When the Exposure Distribution is Skewed and Outliers May Be Present 681
Angelika Schaffrath Rosario, Jürgen Wellmann, Iris M. Heid, and H.-Erich Wichmann

Impact of Measurement Error in Exposures in German Radon Studies 701
Iris M. Heid, Helmut Küchenhoff, Angelika Schaffrath Rosario, Lothar Kreienbrock, and H.-Erich Wichmann

Radon–Thoron Discriminative Measurements in Gansu Province, China, and Their Implication for Dose Estimates 723
Yuji Yamada, Quanfu Sun, Shinji Tokonami, Suminori Akiba, Weihai Zhuo, Changsong Hou, Shouzhi Zhang, Tetsuo Ishikawa, Masahide Furukawa, Kumiko Fukutsu, and Hidenori Yonehara

Radon Risk Management

Assessment and Management of Residential Radon Health Risks: A Report from the Health Canada Radon Workshop 735
Bliss L. Tracy, Daniel Krewski, Jing Chen, Jan M. Zielinski, Kevin P. Brand, and Dorothy Meyerhof

World Health Organization's International Radon Project 759
Jan M. Zielinski, Zhanat Carr, Daniel Krewski, and Michael Repacholi

Volume 69, Issue 9

Introduction—Toxicology and Risk Assessment Conference 2005 771
Guest Editor: Darol E. Dodd

Review of Cost-Effective and Practical Methods for Obtaining Individual Indices of Operation Stress for Deployed Military Personnel 777
George A. Luz

The Role of Death Receptor Signaling in Testicular Germ-Cell Apoptosis Triggered by Mono-(2-ethylhexyl) Phthalate (MEHP)-Induced Sertoli Cell Injury and Its Implications for Risk Assessment 793
John H. Richburg

Immune System Maturity and Sensitivity to Chemical Exposure 811
Robert W. Luebke, David H. Chen, Rodney Dietert, Yung Yang, and Michael I. Luster

Immunotoxicology of Inhaled Compounds—Assessing Risks of Local Immune Suppression and Hypersensitivity 827
MaryJane K. Selgrade and M. Ian Gilmour

Soil Investigation and Human Health Risk Assessment for Nickel in Community Soils Near a Former Nickel Refinery in Southern Ontario, Canada 845
Brendan Birmingham and Dave McLaughlin

Risk Assessment in Drug Development: Autoimmunity 893
Kenneth L. Hastings

Volume 69, Issue 10

Valdecoxib Exposures Reported to Texas Poison Centers During 2002–2004 899
Mathias B. Forrester

Relative Cancer Potencies of Selected Dioxin-Like Compounds on a Body-Burden Basis: Comparison to Current Toxic Equivalency Factors (TEFs) 907
Michael N. Gray, Lesa L. Aylward, and Russell E. Keenan

Interaction of Pyridostigmine Bromide and *N,N*-Diethyl-*m*-Toluamide Alone and in Combination with P-Glycoprotein Expressed in *Escherichia coli* Leaky Mutant 919
Eman M. El-Masry and Mohamed B. Abou-Donia

Effects of Select PM-Associated Metals on Alveolar Macrophage Phosphorylated ERK1 and -2 and iNOS Expression During Ongoing Alteration in Iron Homeostasis 935
Colette Prophete, Polina Maciejczyk, Konstantin Salnikow, Timothy Gould, Timothy Larson, Jane Koenig, Peter Jaques, Constantinos Sioutas, Morton Lippmann, and Mitchell Cohen

Heart-Rate Variability in the Apolipoprotein E Knockout Transgenic Mouse Following Exposure to Seattle Particulate Matter 953
Lisa M. Corey, Coralie Baker, and Daniel L. Luchtel

CYP1A Induction and Blue Sac Disease in Early Life Stages of White Suckers (*Catostomus commersoni*) Exposed to Oil Sands 967
Maria V. Colavecchia, Peter V. Hodson, and Joanna L. Parrott

Volume 69, Issue 11

Acknowledgment: List of Reviewers 995

Biologically Based Analysis of Lung Cancer Incidence in a Large Canadian Occupational Cohort with Low-Dose Ionizing Radiation Exposure, and Comparison with Japanese Atomic Bomb Survivors 1013
William D. Hazelton, Suresh H. Moolgavkar, Stanley B. Curtis, Jan M. Zielinski, J. Patrick Ashmore, and Daniel Krewski

Phosphorus Amendment Reduces Hepatic and Renal Oxidative Stress in Mallards Ingesting Lead-Contaminated Sediments 1039
David J. Hoffman, Gary H. Heinz, and Daniel J. Audet

Ingredients Contribute to Variation in Production of Reactive Oxygen Species by Areca Quid 1055
Ping-Ho Chen, Chi-Cheng Tsai, Ying-Chu Lin, Ying-Chin Ko, Yi-Hsin Yang, Tien-Yu Shieh, Pei-Shan Ho, Chien-Ming Li, Albert Min-Shan Ko, and Chung-Ho Chen

A Biological Evaluation of DNA Damage Detected by Comet Assay in Healthy Populations Residing in Areas that Differ in Lung Cancer Incidence 1071
Worapa Heepchantree, Thipmani Paratasilpin, and Daoroong Kangwanpong

Evaluation of the Protective Effects of Quinacrine Against *Bacillus anthracis* Ames 1083
J. E. Comer, D. M. Noffsinger, D. J. McHenry, D. M. Weisbaum, B. M. Chatuev, A. K. Chopra, and J. W. Peterson

Interaction Between Primary Alveolar Macrophages and Primary Alveolar Type II Cells Under Basal Conditions and After Lipopolysaccharide or Quartz Exposure 1097
R. S. Kanj, J. L. Kang, and V. Castranova

Volume 69, Issue 12

Effect of Acute and Chronic Moderate Red or White Wine Consumption on Fasted and Postprandial Lipemia in the Rat 1117
Costantine F. Daher, Rita Slaiby, Najib Haddad, Karim Boustany, and George M. Baroody

Mercury but not Organochlorines Inhibits Muscarinic Cholinergic Receptor Binding in the Cerebrum of Ringed Seals (*Phoca hispida*) 1133
Niladri Basu, Michael Kwan, and Hing Man Chan

Methylphenidate Abuse in Texas, 1998–2004 1145
Mathias B. Forrester

Porcine Skin as a Model System for Studies of Ultraviolet a Effects in Human Skin 1155
Anna Brożyna and Barbara W. Chwirot

Toxicity of the Norflurazon to the Aquatic Macrophyte *Vallisneria americana* (Michx.) 1167
P. Chris Wilson, Sandra B. Wilson, and Daniel Haunert

Cadmium-induced Apoptosis in Murine Macrophages is Antagonized by Antioxidants and Caspase Inhibitors 1181
Jiyoung Kim and Raghubir P. Sharma

Volume 69, Issue 13

Noninvasive Identification of Interindividual Variation in Xenobiotic-Metabolizing Enzymes: Implications for Cancer Epidemiology and Biomarker Studies 1203
B. Dash, E. Afriyie-Gyawu, H. J. Huebner, W. Porter, J. S. Wang, P. E. Jolly, and T. D. Phillips

Conceptual Site Models as a Tool in Evaluating Ecological Health: The Case of the Department of Energy's Amchitka Island Nuclear Test Site 1217
Joanna Burger, Henry J. Mayer, Michael Greenberg, Charles W. Powers, Conrad D. Volz, and Michael Gochfeld

Comparison of Inflammatory Responses in Mouse Lungs Exposed to Atranones A and C from *Stachybotrys Chartarum* 1239
Thomas G. Rand, J. Flemming, J. David Miller, and Taiwo O. Womiloju

Comparison of Trends in Gastroschisis and Prenatal Illicit Drug Use Rates 1253
Mathias B. Forrester and Ruth D. Merz

Silica-Induced Apoptosis in Alveolar Macrophages: Evidence of in vivo Thiol Depletion and the Activation of Mitochondrial Pathway 1261
Shuiying Hu, Hongwen Zhao, Nabil H. Al-Humadi, Xuejun J. Yin, and Joseph K. H. Ma

Metabolism and Tissue Distribution of Orally Administered Trichloroethylene in Male and Female Rats: Identification of Glutathione- and Cytochrome P-450-Derived Metabolites in Liver, Kidney, Blood, and Urine 1285
Lawrence H. Lash, David A. Putt, and Jean C. Parker

Volume 69, Issue 14

Acute Toxicity and Bioaccumulation of Tributyltin in Tissues of *Urolophus jamaicensis* (Yellow Stingray) 1311
J. Dwivedi and L. D. Trombetta

Uptake, Tissue Distribution, and Excretion of Brevetoxin-3 Administered to Mice by Intratracheal Instillation 1325
Brad M. Tibbetts, Daniel G. Baden, and Janet M. Benson

Accumulation of Chromium and Nickel Metals in Lung Tumors from Lung Cancer Patients in Taiwan 1337
Chung-Yih Kuo, Ruey-Hong Wong, Jia-Yi Lin, Ji-Ching Lai, and Huei Lee

Alterations in the Virulence Potential of Enteric Pathogens and Bacterial–Host Cell Interactions Under Simulated Microgravity Conditions 1345
V. Chopra, A. A. Fadl, J. Sha, S. Chopra, C. L. Galindo, and A. K. Chopra

Oxidative Stress-Related Markers and Langerhans Cells in a Hairless Rat Model Exposed to UV Radiation 1371
Miquel Mulero, Marta Romeu, Montserrat Giralt, Jaume Folch, Maria Rosa Nogués, Àngels Fortuño, Francesc Xavier Sureda, Victoria Linares, Maria Cabré, José Luis Paternáin, and Jordi Mallol

Fumonisin Concentration and Ceramide Synthase Inhibitory Activity of Corn, Masa, and Tortilla Chips 1387
Kenneth A. Voss, William P. Norred, Filmore I. Meredith, Ronald T. Riley, and D. Stephen Saunders

Volume 69, Issue 15

JWA as a Novel Molecule Involved in Oxidative Stress-Associated Signal Pathway in Myelogenous Leukemia Cells 1399
Ting Zhu, Rui Chen, Aiping Li, Jia Liu, Dengan Gu, Qizhan Liu, Hebron C. Chang, and Jianwei Zhou

Degradation of Organophosphorus Neurotoxicity in SY5Y Neuroblastoma Cells by Organophosphorus Hydrolase (OPH) 1413
Taehyeon M. Cho, James R. Wild, Kirby C. Donnelly, and Evelyn Tiffany-Castiglioni

In Vitro Potency of H Oximes (HI-6, HLö-7), the Oxime BI-6, and Currently Used Oximes (Pralidoxime, Obidoxime, Trimedoxime) to Reactivate Nerve Agent-Inhibited Rat Brain Acetylcholinesterase 1431
Kamil Kuca, Jiri Cabal, Jiri Kassa, Daniel Jun, and Martina Hrabinova

Analysis of Algorithms Predicting Blood:Air and Tissue:Blood Partition Coefficients from Solvent Partition Coefficients for Prevalent Components of JP-8 Jet Fuel 1441
Teresa R. Sterner, Charles D. Goodyear, Peter J. Robinson, David R. Mattie, and G. Allen Burton

An Evaluation of the Effects of Thimerosal on Neurodevelopmental Disorders Reported Following DTP and Hib Vaccines in Comparison to DTPH Vaccine in the United States 1481
David A. Geier and Mark R. Geier

Acute Tobacco Smoke Exposure Promotes Mitochondrial Permeability Transition in Rat Heart 1497
Matt M. Eaton, Hemamalini Gursahani, Yehuda Arieli, Kent Pinkerton, and Saul Schaefer

Volume 69, Issue 16

Ozone Exposure Impairs Antigen-Specific Immunity but Activates IL-7-Induced Proliferation of $CD4^{-}CD8^{-}$ Thymocytes in Balb/c Mice 1511
Rentian Feng, Wei He, Hirotomo Ochi, and Vincent Castranova

Database Composition Can Affect the Structure–Activity Relationship Prediction 1527
John F. Young, Chen-An Tsai, James J. Chen, John R. Latendresse, and Ralph L. Kodell

Changes in the Growth, but Not the Survival, of American Kestrels (*Falco sparverius*) Exposed to Environmentally Relevant Polybrominated Diphenyl Ethers 1541
Kim J. Fernie, J. Laird Shutt, Ian J. Ritchie, Robert J. Letcher, Ken Drouillard, and David M. Bird

Exposures to Estradiol, Ethinylestradiol and Octylphenol Affect Survival and Growth of *Rana pipiens and Rana sylvatica* Tadpoles 1555
Natacha S. Hogan, David R. S. Lean, and Vance L. Trudeau

Enhancement of Mite Allergen-Induced Eosinophil Infiltration in the Murine Airway and Local Cytokine/Chemokine Expression by Asian Sand Dust 1571
Takamichi Ichinose, Kaori Sadakane, Hirohisa Takano, Rie Yanagisawa, Masataka Nishikawa, Ikuko Mori, Hiroaki Kawazato, Aiko Yasuda, Kyoko Hiyoshi, and Takayuki Shibamoto

Volume 69, Issue 17

Effect of Hydroxycut Intake on Fasted and Postprandial Lipemia in Rats 1587
Costantine F. Daher, Khajag B. Koulajian, Najib Haddad, and George M. Baroody

Brood Patches of American Kestrels Altered by Experimental Exposure to PCBs 1603
Sheri A. Fisher, Gary R. Bortolotti, Kim J. Fernie, David M. Bird, and Judit E. Smits

Short-term Effects of Depleted Uranium on Immune Status in Rat Intestine 1613
I. Dublineau, S. Grison, C. Linard, C. Baudelin, N. Dudoignon, M. Souidi, C. Marquette, F. Paquet, J. Aigueperse, and P. Gourmelon

The Effect of Repeated Inhalation on the Distribution of Uranium in Rats 1629
Marjorie Monleau, Eric Blanchardon, Marie Claraz, François Paquet, and Valérie Chazel

Effect of Di(2-Ethylhexyl) Phthalate (DEHP) on Genital Organs from Juvenile Common Marmosets: I. Morphological and Biochemical Investigation in 65-Week Toxicity Study 1651
Yuki Tomonari, Yoshimasa Kurata, Raymond M. David, Gerhard Gans, Takeshi Kawasuso, and Masanobu Katoh

Volume 69, Issue 18

Effects of Asian Dust Storm Events on Daily Clinical Visits for Conjunctivitis in Taipei, Taiwan 1673
Chun-Yuh Yang

Neurodegeneration Produced by Rotenone in the Mouse Retina: A Potential Model to Investigate Environmental Pesticide Contributions to Neurodegenerative Diseases 1681
Xian Zhang, Dirk Jones, and F. Gonzalez-Lima

Role of Reactive Oxygen Species on Diesel Exhaust Particle-Induced Cytotoxicity in Rat Cardiac Myocytes 1699
Yuta Okayama, Masayoshi Kuwahara, Akira K. Suzuki, and Hirokazu Tsubone

Assessment of Barriers to Utilization of Poison Centers by Hispanic/Latino Populations 1711
Zdravko P. Vassilev, Michele Shiel, M. Jane Lewis, Steven M. Marcus, and Mark G. Robson

Aripiprazole Exposures Reported to Texas Poison Control Centers During 2002–2004 1719
Mathias B. Forrester

Use of a Physiologically Based Pharmacokinetic Model to Identify Exposures Consistent With Human Biomonitoring Data for Chloroform 1727
Yu-Mei Tan, Kai H. Liao, Rory B. Conolly, Benjamin C. Blount, Ann M. Mason, and Harvey J. Clewell

Volume 69, Issue 19

Jimsonweed (*Datura stramonium*) Exposures in Texas, 1998–2004 1757
Mathias B. Forrester

Responses of Shortfin Eel (*Anguilla Australis*) Exposed In Situ to Pulp and Paper Effluent 1763
Michael R. van den Heuvel, Michael J. Landman, and Louis A. Tremblay

Biological Markers of Fetal Lead Exposure at Each Stage of Pregnancy 1781
Héctor Lamadrid-Figueroa, Martha María Téllez-Rojo, Leticia Hernández-Cadena, Adriana Mercado-García, Donald Smith, Maritsa Solano-González, Mauricio Hernández-Avila, and Howard Hu

Does Arsenic Exposure Increase the Risk of Development of Peripheral Vascular Diseases in Humans? 1797
Chun-Yuh Yang

Measuring Cholinesterase Activity in Human Saliva 1805
Birgit Claus Henn, Suzanne McMaster, and Stephanie Padilla

Stakeholder Needs for Air Pollution and Health Information 1819
Eric Gordon Sanderson, Nina Fudge, Annike Irene Totlandsdal, Bert Brunekreef, and Leendert van Bree

Volume 69, Issue 20

Enhancement of Renal Carcinogenicity by Combined Inhalation and Oral Exposures to Chloroform in Male Rats 1827
Kasuke Nagano, Hirokazu Kano, Heihachiro Arito, Seigo Yamamoto, and Taijiro Matsushima

Genotoxic Effects in C57BL/6J Mice Chronically Exposed to Arsenate in Drinking Water and Modulation of the Effects by Low-Selenium Diet 1843
Jadwiga Palus, Dobrosława Lewińska, Elżbieta Dziubałtowska, Wojciech Wąsowicz, Jolanta Gromadzińska, Konrad Rydzyński, Małgorzata Stańczyk, Joanna Arkusz, Małgorzata Trzcinka-Ochocka, and Maciej Stępnik

Pharmacokinetics of Triclosan Following Oral Ingestion in Humans 1861
Gunilla Sandborgh-Englund, Margaretha Adolfsson-Erici, Göran Odham, and Jan Ekstrand

A Comparison of the Efficacy of New Asymmetric Bispyridinium Oximes (K027, K048) with Currently Available Oximes Against Tabun by In Vivo Methods 1875
Jiri Kassa, Kamil Kuca, Jiri Cabal, and Martin Paar

Comparison of Zolpidem and Zaleplon Exposures in Texas, 1998–2004 1883
Mathias B. Forrester

Volume 69, Issue 21

Introduction 1893
Bosco Chen Bloodworth

Particulate Air Pollution from Bushfires: Human Exposure and Possible Health Effects 1895
Sathrugnan Karthikeyan, Rajasekhar Balasubramanian, and Kostetski Iouri

Assessing Exposure to Diesel Exhaust Particles: A Case Study 1909
Siao Wei See, Rajasekhar Balasubramanian, Tzuo Sern Yang, and Sathrugnan Karthikeyan

Levels of Persistent Organic Pollutant Residues in Human Adipose and Muscle Tissues in Singapore 1927
Qing Qing Li, Annamalai Loganath, Yap Seng Chong, Jing Tan, and Jeffrey Philip Obbard

Familial Characteristics of Kidney-yang Deficiency and Cold Syndrome 1939
J. G. Wang, Ling Pan, Bin Wu, and Miqu Wang

Detection of Sildenafil Analogues in Herbal Products for Erectile Dysfunction 1951
Sharon Sze-Yin Oh, Peng Zou, Min-Yong Low, and Hwee-Ling Koh

A Preliminary Ecotoxicity Study of Pharmaceuticals in the Marine Environment 1959
Amy Mei Fun Choong, Serena Lay-Ming Teo, Jo Lene Leow, Hwee Ling Koh, and Paul Chi Lui Ho

Use of Genetically Modified Viruses and Genetically Engineered Virus-vector Vaccines: Environmental Effects 1971
Vivian S. W. Chan

Vitamin D_2 from Irradiated Mushrooms Significantly Increases Femur Bone Mineral Density in Rats 1979
Viraj J. Jasinghe, Conrad O. Perera, and Philip J. Barlow

Persistent Organic Pollutants and Adverse Health Effects in Humans 1987
Qing Qing Li, Annamalai Loganath, Yap Seng Chong, Jing Tan, and Jeffrey Philip Obbard

Volume 69, Issue 22

Letters to the Editor 2007

Systemic Imbalance of Essential Metals and Cardiac Gene Expression in Rats Following Acute Pulmonary Zinc Exposure 2011
Peter S. Gilmour, Mette C. Schladweiler, Abraham Nyska, John K. McGee, Ronald Thomas, Richard H. Jaskot, Judy Schmid, and Urmila P. Kodavanti

Correlation Between Air Pollution and Postneonatal Mortality in a Subtropical City: Taipei, Taiwan 2033
Chun-Yuh Yang, Hui-Ju Hsieh, Shang-Shyue Tsai, Trong-Neng Wu, and Hui-Fen Chiu

Drug Identification Calls From Law Enforcement Received by Texas Poison Control Centers, 2002–2004 2041
Mathias B. Forrester

Effects of *p,p'*-DDE on Retinoid Homeostasis and Sex Hormones of Adult Male European Common Frogs (*Rana temporaria*) 2051
Àngels Leiva-Presa and Bjørn Munro Jenssen

Volume 69, Issue 23

Occupational and Environmental Associations with Antinuclear Antibodies in a General Population Sample 2063
Glinda S. Cooper, Christine G. Parks, Peter S. Schur, and Patricia A. Fraser

Elevation of Sphinganine 1-phosphate as a Predictive Biomarker for Fumonisin Exposure and Toxicity in Mice 2071
Dong-Hyun Kim, Hwan-Soo Yoo, Yong-Moon Lee, Jeong-Hae Kie, Soyong Jang, and Seikwan Oh

Pattern of Thiazolidinedione Exposures Reported to Texas Poison Centers During 1998–2004 2083
Mathias B. Forrester

Development of Physiologically Based Toxicokinetic Models for Improving the Human Indoor Exposure Assessment to Water Contaminants: Trichloroethylene and Trihalomethanes 2095
Sami Haddad, Ginette-Charest Tardif, and Robert Tardif

Volume 69, Issue 24

Gamma-irradiation-induced Intercellular Adhesion Molecule-1 (ICAM-1) Expression is Associated with Catalase: Activation of Ap-1 and JNK 2137
Eun-Wha Son, Dong-Kwon Rhee, and Suhkneung Pyo

Subchronic Toxicity Studies of the Aqueous Extract of *Aristolochiae fructus* in Sprague-Dawley Rats 2157
Myung Sil Hwang, Mi Sun Park, Ji-Young Moon, Ji Sun Lee, Young Na Yum, Eungkyung Yoon, Hyomin Lee, Ki Taek Nam, Byung Mu Lee, Seung Hee Kim, and Ki Hwa Yang

Effects of Low-level Inhalation Exposure to Cyclosarin on Learned Behaviors in Sprague-Dawley Rats 2167
Raymond F. Genovese, Bernard J. Benton, Sara J. Shippee, Edward M. Jakubowski, and Jessica C. Bonnell

Following page: 2180
Title page to Volume 69
Author Index to Volume 69
Table of Contents to Volume 69